

## Billingsley Road Safety Improvements

### Project Purpose/Background

Minor safety improvements, such as raised pavement markings, greater signage, and drainage enhancements have been made over time to improve driving/safety conditions of Billingsley Road. The current geometrics and associated physical constraints have limited the County's ability to provide safety improvements. Given these limitations, the County is designing the necessary improvements to Billingsley Road and the associated infrastructure (drainage, shoulders, etc.) to improve road and driver safety.

### Project Status

County staff coordinating with Health Department to review and revised proposed design of the septic system that require relocation due to proposed road alignment.

### Three-Month Look Ahead

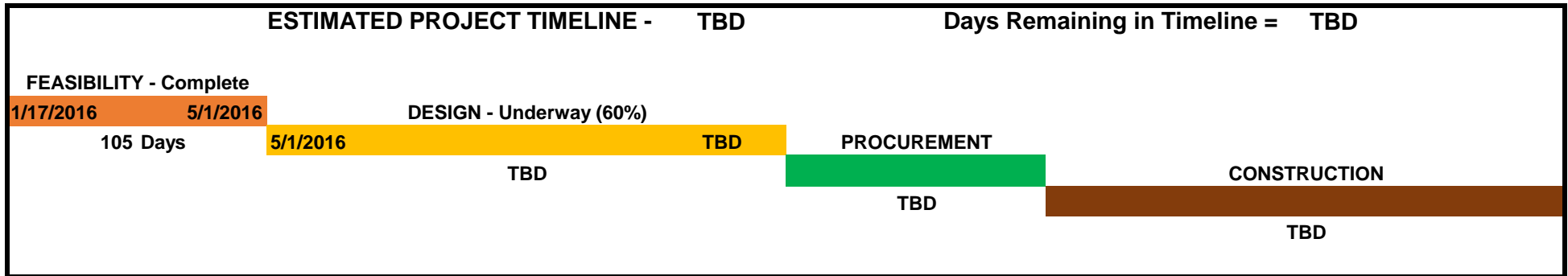
Coordinate with Health Department and re-initialize design.

### Issues/Concerns

Impacts to four (4) properties due to stormwater management and changes in vertical alignment of the proposed roadway.

Major delays experienced due to (1) Right of Entry Agreements (120 days); (2) Geotechnical Work (30 days); (3) Historical Assessment of properties (30 days); (4) Coordination with Health Department for septic repair areas (30 days).

### Project Summary



## Bel Alton High School Window Replacement

### Project Purpose/Background

The existing windows no longer provide proper thermal/moisture control barriers, and are in poor physical condition and require repair/replacement.

### Project Status

A request to perform a complete replacement of the windows was rejected by the Maryland Historical Trust (MHT). MHT then requested that a sash by sash assessment be performed and submitted for further review and approval. A sash-by-sash study to document the condition of the windows was submitted to Maryland Historical Trust (MHT) for their determination of what method of repairs can be implemented. MHT responded to sash-by-sash submission report requiring window repairs in lieu of full replacement. MHT advised that storm windows could be installed upon their approval. A Request for Proposals (RFP) to perform necessary repairs to facilitate the installation of storm was prepared. The RFP was posted on August 24, 2017 with bids due on October 31, 2017.

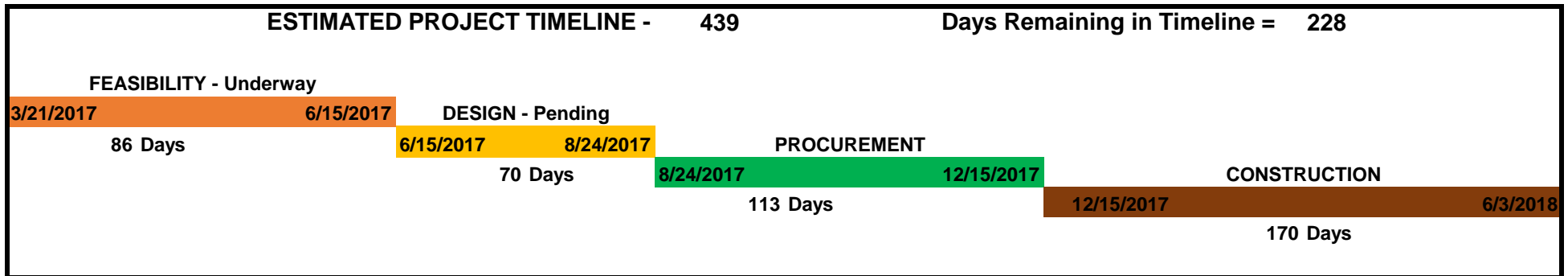
### Three-Month Look Ahead

Complete and submit sash assessment to MHT; receive comments from MHT; complete design drawings; and advertise for construction.

### Issues/Concerns

Lead paint test results show traces of lead in the majority of the window material that will not require abatement. The exterior casing is lead positive and will require remediation.

### Project Summary



## Government Building Atrium/Security Renovations

### Project Purpose/Background

Provide architectural, structural, mechanical, electrical, and plumbing design drawings as necessary for the installation of security upgrades for the atrium of the Charles County Government building. Services provided shall be based on the layout selected from preliminary engineering and drawings prepared previously. The replacement of two (2) aging existing HVAC rooftop units was incorporated into design. One (1) additional HVAC rooftop unit required for new second floor office space being created.

### Project Status

Bids for construction services were received on August 23, 2017. Best and Final bids requested on September 15, 2017 and were received from 2 of 4 bidders on September 21, 2017. Award recommendation forward to Purchasing Division on September 22, 2017.

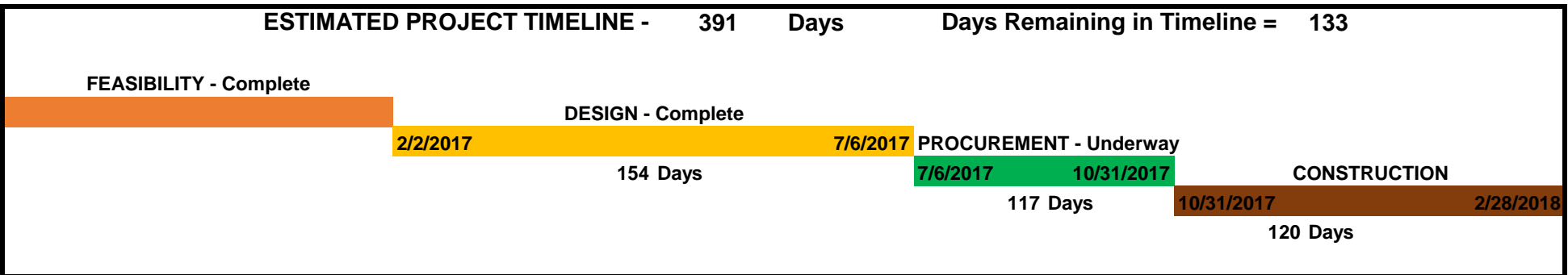
### Three-Month Look Ahead

Issue Notice-to-Proceed, start construction work.

### Issues/Concerns

None.

### Project Summary



## Government Building Solar Parking Canopies

### Project Purpose/Background

In an effort to reduce electrical costs, solar parking canopies will be installed at the Government Building Complex, which will result in an average annual cost savings of \$35,300. This represents a 15.6% cost reduction.

### Project Status

Amendment to the Solar Power Purchase Agreement was signed by the County on August 10, 2017, extending the Commercial Operation Date (COD) to May 29, 2017. Tesla conducted site visits and field testing in preparation for final design and scheduling. Tesla provided the schedule and phasing plan on 9/5/17 and held a coordination meeting with the County to discuss schedule and phasing plan. Eight phases are proposed with limitations on the number of spaces that can be blocked off per phase to ensure adequate parking is maintained for the courthouses and County Government Building.

The phasing plan and schedule shows a mobilization/start date of 11/13/17 and a Commercial Operation Date of June 5, 2017.

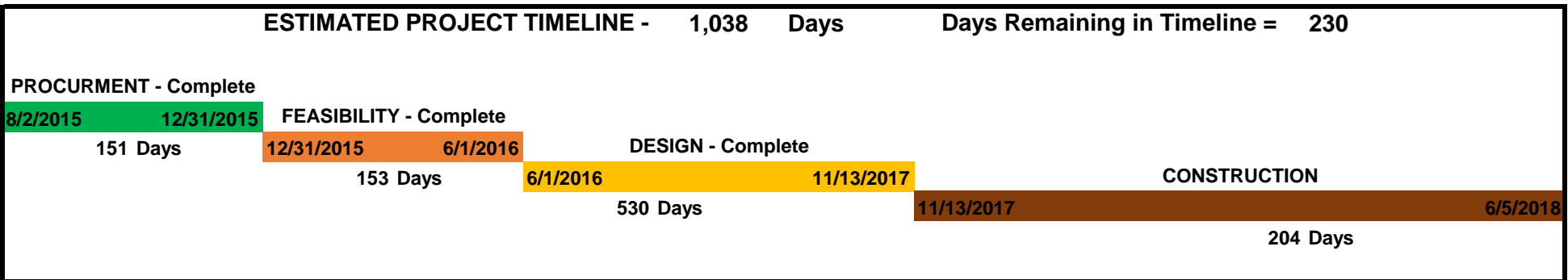
### Three-Month Look Ahead

Mobilize, start of construction, complete phases 1 through 4.

### Issues/Concerns

Lower parking along Talbott Street to be used as overflow parking during construction as various phases are underway. Due to limited spaces allowed for shutdown, project schedule may be impacted by 30 days. County staff negotiating alternative parking areas to address this issue.

### Project Summary



## Health Department Roof Replacement

### Project Purpose/Background

The existing roof surface layer at the Health Department (HD) has outlived its serviceable life and is in need of replacement. In 2015, an evaluation of the roof and coating system was performed and out of three recommended repair options, the County originally selected a roof recovery option which involved construction of a new thermoplastic polyolefin (TPO) single-ply membrane roof over the existing metal roof. Due to logistical concerns with relocating HD staff, the design was revised to a 10-year roof coating overlay with no structural upgrades required.

### Project Status

The Invitation-to-Bid (ITB) posted on August 2, 2017; bids were received on September 09, 2017. Reference checks performed and award recommendation sent to Purchasing on September 20, 2017. Capital Services coordinating construction administration and inspections services.

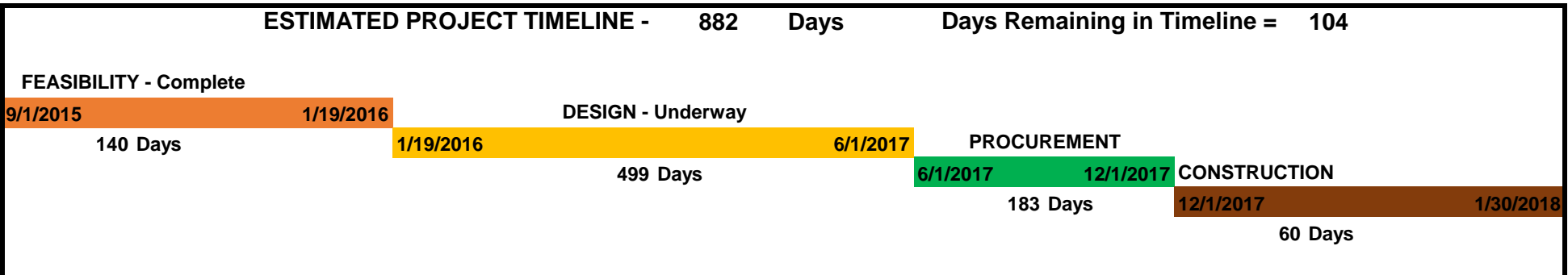
### Three-Month Look Ahead

Issue Notice-to-Proceed, mobilize, start and complete work.

### Issues/Concerns

None.

### Project Summary



## Jenkins Lane Waterline Extension

### Project Purpose/Background

The production wells for the Jenkins Lane Water Company were in need for repairs/upgrades to be in compliance with MDE regulations. The community petitioned the County to provide design and construction services for a new waterline. The County allowed the community to temporarily connect to the public water system while the new water line was being designed and constructed. The construction contract was awarded for \$962K. County staff assisted the community in obtaining a grant from MDE to offset up to \$240K of the construction costs.

### Project Status

Construction began on March 17, 2017 and was completed on June 29, 2017. The water main has been installed and house connection started mid- May.

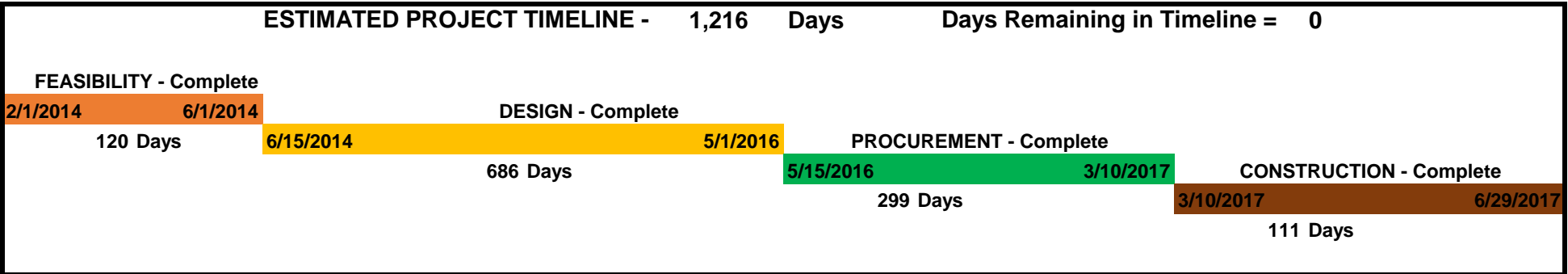
### Three-Month Look Ahead

Demolition of existing water main once all residential connections are made by homeowners. Reconcile project costs.

### Issues/Concerns

None.

### Project Summary



## Middletown Road/Billingsley Road Roundabout

### Project Purpose/Background

Traffic backups exist during peak vehicular volume times at the existing 3-way stop located at Billingsley Road and Middletown Road. This project will allow traffic flow to move more freely through a two-lane roundabout. The project will include construction of a 2-lane roundabout and 800 linear feet of 4-lane divided highway from a signalized intersection to the roundabout to meet the ultimate roadway classification for Middletown Road.

### Project Status

Construction activities completed: clearing & grubbing, roadway alignment stakeout, installation drainage systems, excavated roadway, subgrade preparaton, installed aggregate base, installing stormwater management facility. Field conflicts required re-design of storm drain resulting in a 60-day delay. Contract project completion date is January 3, 2018.

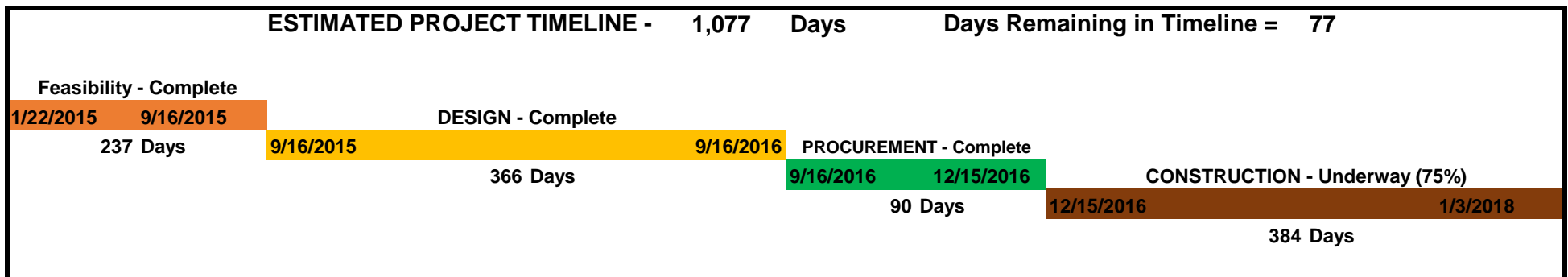
### Three-Month Look Ahead

Complete work, substantial completion inspection.

### Issues/Concerns

Work activities had to be performed out of sequence due to storm drain revisions. This caused some delays, but contractor's aggressive schedule made up many of the schedule delays.

### Project Summary



## Solar Power Purchase Program

### Project Purpose/Background

In an effort to reduce electrical costs, the County initiated its Solar Power Purchase Program in the fall of 2015 by competitively soliciting proposals from qualified solar power providers. As a result of the solicitation, the County issued letters of intent to three solar energy companies. The County's solar power initiative is an on-going program with a goal of having 100% of the County's electricity demand provided through solar energy, which would result in an average annual cost savings of more than \$715K. This represents a 32% cost savings.

### Project Status

A Notice of Intent letter (NOI) dated January 13, 2016 was issued to Energy Ventures, Inc. (EnVen) to enter into a Power Purchase Agreement (PPA). The PPA was executed on May 5, 2017. EnVen provided a schedule for the non-county owned site located in PG County as follows:

PPA Executed:	May 5, 2017
Execute a Ground Lease Agreement:	October 29, 2017
SMECO Interconnection Approval:	November 30, 2017
Maryland PSC Approval:	March 31, 2018
Construction Start:	April 30, 2018
Commercial Operations Date:	September 30, 2018

An additional Notice of Intent (NOI) letter dated 7/13/17 was issued to EnVen to explore four (4) additional county-owned sites for potential solar array opportunities. A tentative schedule for the 1st of the four (4) sites, Breeze Farm site was provided by EnVen as follows:

Execute PPA:	November 30, 2017
Execute Ground Lease Agreement:	November 30, 2017
SMECO Interconnection Approval:	January 31, 2018
Maryland PSC Approval:	May 31, 2018
Construction Start:	June 30, 2018
Commercial Operations Date:	November 30, 2018



Blue Crabs Stadium Solar Project: GroSolar provided a Project Summary Proposal for a 2.0 megawatt Solar Photovoltaic (PV) System at a net cost of \$2.3M, with an estimated savings in electricity costs of \$250,000 over 25 years. The proposed savings at the Blue Crabs Stadium are based on paying no personal property tax on the equipment. During internal meeting to discuss feasibility of GroSolar's proposal. The meeting attendees reached a consensus to not accept GroSolar's Solar PV System proposal due to lack of savings, proposed length of contract, space required, proposed personal property tax waiver. In response to the rejection of their proposal GroSolar requested approval to re-consider the original site awarded to them for a 2MW (AC) project at the County owned Davis Road property.

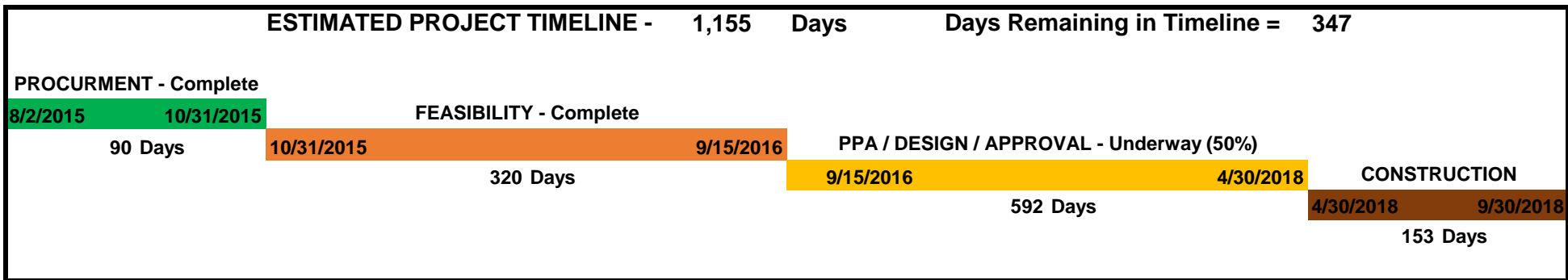
### Three-Month Look Ahead

Execute Ground Lease Agreement for non-county owned site, execute the PPA for the Breeze Farm site, obtain interconnection approvals pect to receive approval of interconnection application from SMECO and start construction. Solar providers to explore other County owned properties for other prospective solar sites.

### Issues/Concerns

Declining value of renewable energy credits (RECs) will impact overall savings for County.

### Project Summary



# Southern Maryland Stadium Seating Area Cover/Roofing

## Project Purpose/Background

Design and construct a protected/covered roofing system to cover the seating area to facilitate a venue for multiple spectator events and extend the viewing seasons.

## Project Status

Conceptual design produced a structural steel frame/metal roof canopy system that can be installed in phases (bays) for future expansion. Estimated construction cost is \$119,000 per bay. Design is underway for Phase 1 to install two (2) bays on each side of the existing roofed structure for a total of four (4) bays at an estimated cost of \$476,000. Phase 1 will cover approximately 530 seats.

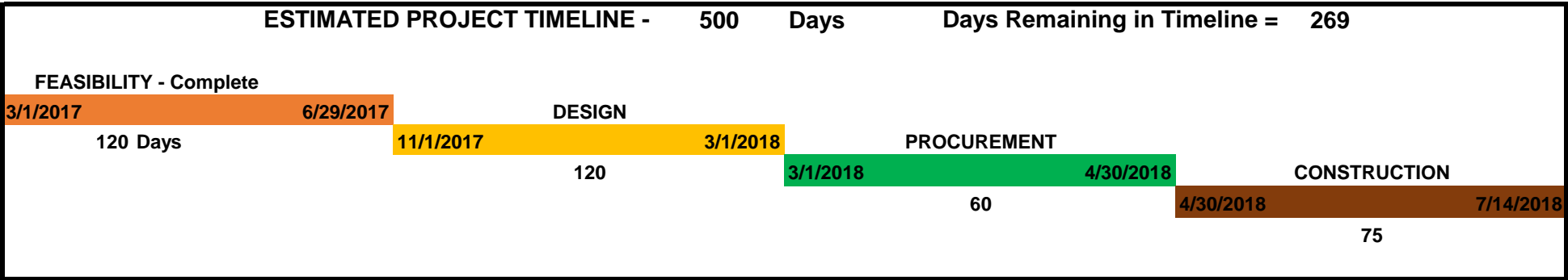
## Three-Month Look Ahead

Complete design and permitting, proceed to procurement phase.

## Issues/Concerns

Only \$400,000 currently budgeted for construction.

## Project Summary



## Western Parkway, Phase 2

### Project Purpose/Background

The Western Parkway, Phase 2 project involves rehabilitation of the existing roadway and stormwater drainage between Acton Lane and Pierce Road. Phase 2 is the next phase of improvements for a north/south alternative route to US 301 that will facilitate local vehicular traffic within Waldorf. The existing roadway will be upgraded to a four-lane divided highway of Minor Arterial Parkway classification. Auxiliary lanes are proposed for deceleration and acceleration at intersections and entrances where right-of-way width is sufficient to allow such improvements.

### Project Status

Construction continuing, work at Holly Lane/Western Parkway nearing completion. Intersection shutdown decreased project schedule. Payment to date = 43%; time elapsed to date = 43%; Project On Schedule.

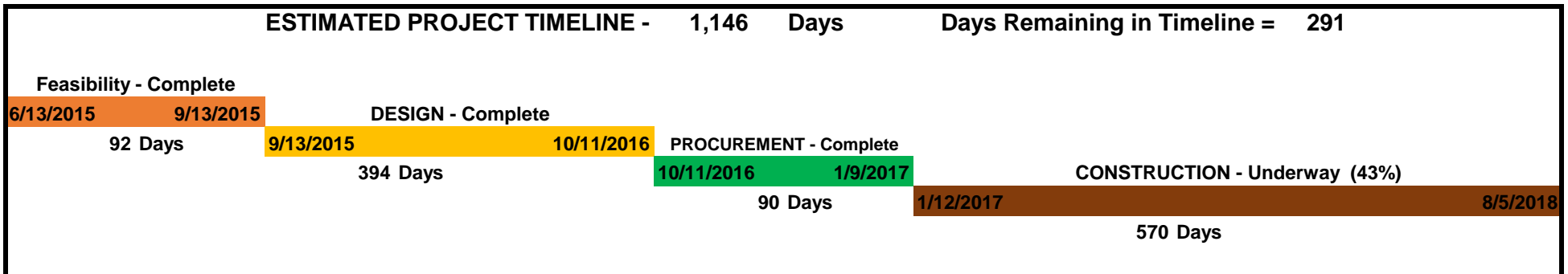
### Three-Month Look Ahead

Complete work at Holly Lane/Western Parkway intersection, re-open Holly Lane, continue roadway construction activities.

### Issues/Concerns

- Roadway closures/detours proposed by contractor experienced unexpected delays due to utility relocations performed by utilities companies.
- Experienced unsuitable soil conditions for entire new road profile from Holly Lane to Pierce Road that costs upwards of \$550,000.

### Project Summary



## Western Parkway, Phase 3B

### Project Purpose/Background

The Western Parkway, Phase 3B project involves the construction of a new four-lane divided highway of Minor Arterial Parkway classification between Pierce Road and US 301 north of Mattawoman Drive. The Phase 3B project is the final phase of improvements for a north/south alternative route to US 301 that will facilitate local vehicular traffic within Waldorf. Additionally, this project will provide future links of the pedestrian and bicyclist facilities within the Waldorf Urban Core area.

### Project Status

- County continues to work with new property owner on Memorandum of Understanding (MOU).
- Design for the permitted alignment is 30% (as of 2014) by developer's design consultant (Boehler Eng.).
- ACOE and MDE permits have been received and will expire December 21, 2020 and March 6, 2019, respectively.
- County continues to work with new property owner on MOU that will enable Capital Services Division to coordinate the completion of the design and begin procurement process for construction.

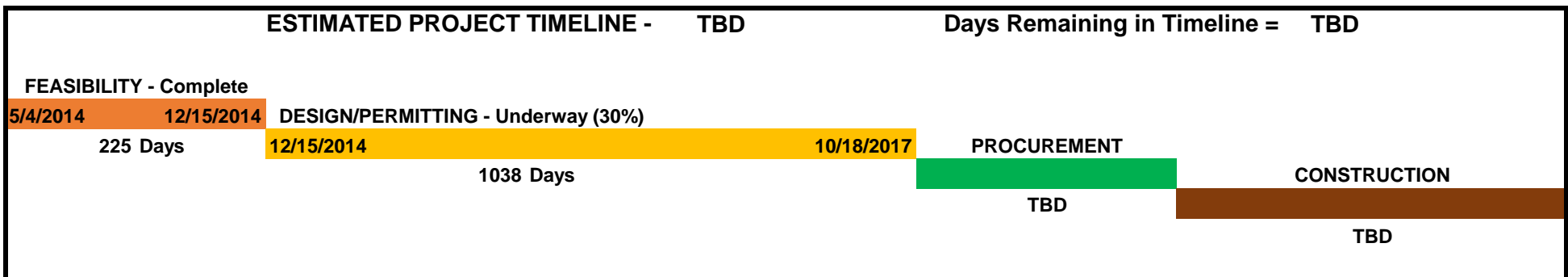
### Three-Month Look Ahead

County Attorney's office to continue working with new property owner regarding the MOU.

### Issues/Concerns

Permits in hand (MDE, ACOE, SHA) are for newest alignment.

### Project Summary



## Other Milestones/Accomplishments Over Last Quarter

### Started Design (1)

Waldorf Recreation Center - Design started - September 13, 2017

### Completed Design (3)

NPDES General Smallwood Middle School - October 30, 2017

NPDES Clifton Shoreline Restoration Project - August 4, 2017

Mattawoman I/I - Zekiah Area - August 17, 2017

### Advertised for Construction (1)

Bel Alton High School - September 26, 2017

### Construction Bids Received (2)

Closed Loop - August 2, 2017

Health Department Roof Recoating - September 7, 2017

### Award Recommendations (2)

NPDES Swan Point Shoreline Stabilization Project - October 17, 2017

NPDES Benedict Shoreline Restoration Project - October 17, 2017

### Started Construction (1)

NPDES Acton Hamilton Project - July 13, 2017

### Construction Completed (4)

Smallwood Drive East Tower Rehab - August 23, 2017

NPDES Temi Drive Project - June 23, 2016

Pinefield Drainage Improvements - October 4, 2017

Jenkins Lane Waterline Extension - July 5, 2017

## QUESTIONS/COMMENTS